

NEW METHODS OF CULTIVATION IN INDIA

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Abstract:

As the world grapples with the challenges of climate change, environmental degradation, and food security, the importance of sustainable agricultural practices cannot be overstated. Young farmers, in particular, play a critical role in shaping the future of agriculture. However, they often lack access to education and training on sustainable practices. This presentation explores the significance of agriculture education in empowering young farmers to adopt sustainable practices. We discuss the current state of agriculture education, the challenges faced by young farmers, and the benefits of sustainable practices. We also highlight innovative approaches to agriculture education, such as experiential learning, mentorship programs, and digital platforms.

Our goal is to demonstrate the critical role of agriculture education in promoting sustainable agriculture practices among young farmers, and to inspire action towards creating a more sustainable food system. Maris Stella a renowned institution giving training to young girls who are the future economics resources of the country by educating them in cultivating chitti muthyalu a unique paddy variety in organic way .which resulted in a good number of farmers attention in 2024&25?

Keywords: agriculture education, sustainable practices, young farmers, climate change, food security

1. Introduction

As the world grapples with the challenges of climate change, environmental degradation, and food security, the importance of sustainable agricultural practices cannot be overstated. Young farmers, in particular, play a critical role in shaping the future of agriculture. However, they often lack access to education and training on sustainable practices.

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What is the importance of preserving and promoting traditional crop varieties like Chitti Mutyalu seed in agriculture, and how can this contribute to sustainable food systems? I asked the first question while doing research the answer spontaneously that traditional methods are the basics of Indian agriculture which was very impressive to me after conducting the research i have noticed that traditional and old variety seeds will have long lasting life.

This study discusseabout cultivating trditional crops will give more knowledge to young farmers i.e Chitti muthyalu in paddy Chitti Mutyalu is a traditional paddy variety native to the

state of Telangana, India. It is known for its unique characteristics, such as its ability to thrive in dry conditions and its resistance to certain pests and diseases.

Based on its native region and characteristics, Chitti Mutyalu paddy variety is suitable for cultivation in areas with similar climate and soil conditions. Here are some places that may be suitable for cultivating Chitti Mutyalu paddy variety:

2. Regions in India

1. ***Telangana***: As the native region of Chitti Mutyalu, Telangana's climate and soil conditions are well-suited for its cultivation.
2. ***Andhra Pradesh***: The neighboring state of Andhra Pradesh also has similar climate and soil conditions, making it a suitable region for Chitti Mutyalu cultivation.
3. ***Karnataka***: Certain regions of Karnataka, such as the Deccan Plateau, may also be suitable for Chitti Mutyalu cultivation.

3. Climate and Soil Conditions

1. ***Dry to semi-dry climate***: Chitti Mutyalu is adapted to dry conditions, making it suitable for regions with low to moderate rainfall.
2. ***Well-drained soils***: The variety prefers well-drained soils with a pH range of 6.0 to 8.0.
3. ***Temperature range***: Chitti Mutyalu can thrive in temperatures ranging from 20°C to 35°C.

4. Specific Districts Warangal: Warangal district in Telangana is known for its Chitti Mutyalu cultivation. Karimnagar, Karimnagar district in Telangana is another region where Chitti Mutyalu is commonly cultivated. Mahbubnagar: Mahbubnagar district in Telangana is also suitable for Chitti Mutyalu cultivation. How does Chitti Mutyalu crop influence agriculture students' knowledge acquisition?

It enhances their understanding of traditional farming practices. It improves their knowledge of modern irrigation techniques. It increases their awareness of crop disease management. In what way does Chitti Mutyalu crop provide practical experience for agriculture students? It allows them to practice modern farming techniques., gives them hands-on experience with traditional crop varieties.

Chitti Mutyalu crop influence research opportunities for agriculture students?

Chitti Mutyalu crop influence career prospects for agriculture students 20percent of them have given importance to opens up career opportunities in traditional farming and conservation.

It enables students to pursue careers in agricultural extension services.

What skills do agriculture students develop through Chitti Mutyalu crop cultivation?

20percent expressed that ,Technical skills in farm mechanization and modern irrigation.

60percent of them opined that Practical skills in traditional farming practices and crop management. It enhances their understanding of traditional farming practices. It gives them hands-on experience with traditional crop varieties. It provides opportunities for research on traditional farming practices. It opens up career opportunities in traditional farming and conservation. Practical skills in traditional farming practices and crop management.

Role of traditional crops in sustainable food systems

Potential benefits of promoting Chitti Mutyalu seed specifically

Some possible points to consider when answering this question:

Biodiversity conservation Climate resilience, Soil health, Water conservation, Nutritional benefits, Support for local farming communities

Present study explains that cultivating traditional crops will not give much income but it gives an output which gives them the feel of encouragement to the young farmers. It seems like you've conducted a survey or gathered feedback from respondents regarding their opinions on traditional crop cultivation. Here's a summary of the findings:

5. Key Findings

1. Zeal for Traditional Crops: 80% of respondents believe that cultivation gives them a sense of enthusiasm and motivation to continue growing traditional crops.
2. Need for Government Support: 20% of respondents feel that state government support is essential to encourage and promote traditional methods of cultivation.

6. Insights: These findings suggest that:

A significant majority of respondents are passionate about traditional crop cultivation and find it fulfilling. A smaller but notable percentage of respondents recognize the importance of government support in promoting and sustaining traditional cultivation practices.

Potential Implications

These findings could help the farmers and government to check the priority sector, agriculture as a basic occupation to be taken much care. Initiatives to promote and preserve traditional crop varieties and cultivation methods.

Government policies and programs aimed at supporting and incentivizing traditional farmers. Educational and outreach efforts to raise awareness about the importance and benefits of traditional crop cultivation. Here's a summary of the findings:

7. Key Findings

1. *Career Opportunities*: 34% of respondents believe they can pursue career opportunities in traditional crop cultivation.
2. *Price Increase*: 42% of respondents expect a 10-15% increase in prices for traditional crops.
3. *Price Variation*: 25-30% of respondents anticipate a 20-25% price variation in crop production overall.

These findings suggest that:

- A significant proportion of respondents see career potential in traditional crop cultivation.
- Many respondents expect a moderate increase in prices for traditional crops.
- A notable percentage of respondents anticipate price fluctuations in the overall crop production market.

Potential Implications*

- These findings could inform:
 - Initiatives to support and develop careers in traditional crop cultivation.
 - Market analyses and forecasts to help farmers and stakeholders navigate price fluctuations.
 - Strategies to stabilize prices and ensure fair returns for farmers.